Quality Control

Work Order ID 66950 Page 1 Thursday, March 03, 2011 8:47:22 AM Item ID: D3414-041 Accept Setup Start **Revision ID:** Stop Lug Assembly Item Name: **Start Date:** 3/3/2011 **Start Qty: 12.00 Cust Item ID:** Required Date: 3/11/2011 Req'd Qty: 12.00 **Customer:** Reference: Start Run Dates 163-3 Tooling: **Process Plan: Approvals:** Date: Stop QC: Date: **SPC (Y/N):** Date: Sequence ID/ Operation Set Up/ **Tool ID** Accept Reject Tool # Plan Reject Insp. **Work Center ID** Description Code Qty Qty Number Stamp **Run Hours** Draw Nbr Revision Nbr D3414 Rev C 100 0.00 Bi1-3-7 Waterjet 0.00 Memo FLOW CNC Waterjet 1-Cut as per Dwg D3414-1 304.100 Dwg Rev: Prog Rev: 2-Deburr if necessary 110 QC2- Inspect parts off machine FAI/FAIB 0.00

0.00

Memo

B11-3-7

Ĺ)ar	t /	Aer	os	pac	e l	_td

W/O:			W	ORK ORDER CHANG	ES					
DATE	STEP	PRO	OCEDURE CHA	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
							· -		Prod Mgr	<u> </u>
						ļ				
Part No	:	PAR #:	Fault Cate	egory:	_ NCR	: Yes I	No DQ	A:	Date: _	
	Re	solution:	Disposition	on:	_ QA:	N/C Clo	sed:		Date: _	·
NCR:			WORK ORD	ER NON-CONFORM	ANCE	(NCR)		·-	
	T	Description of NC		ion B		Verifi	cation	Approval	Approval	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date		Section C	Chief Eng	QC Inspector
,										

Work Order ID 66950

Thursday, March 03, 2011 8:47:22 AM



Page 2

Item ID:

D3414-041

Accept

Setup Start

Revision ID:

Item Name:

Lug Assembly

Start Date:

Start Oty: 12.00 3/3/2011

Req'd Qty: 12.00

Cust Item ID:

Customer:

Required Date: 3/11/2011

Reference:

Process Plan:

Date: _____

Tooling:

Date:

Start

Stop



Approvals:

QC:

Date: _ ____

SPC (Y/N):

Set Up/

Date:

Stop

Run



Sequence ID/

Work Center ID

120

Quality Control

Operation **Description**

QC8- Inspect parts - second check

Memo

Run Hours 0.00

Tool ID

Tool # Plan Code

Accept Qty

Reject Reject Qty Number

Insp. Stamp

contro

Brake NC

130

Brake NC

Memo

1-Deburr

2-Form using DT8254 as per Dwg D3414

0.00

58 11/03/09

140

Large Fab

Large Fab

Memo

0.00

0.00

1- Weld using location Jig DT9625 as per Dwg D3414 A/R S.S. welding rod Batch: 11,07051

EZ 11-3-21.



Dart Aerospace Lt

W/O:	<u> </u>		WO	RK ORDER CHANGE	ES				
DATE	STEP	PRO	OCEDURE CHAN	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
100									
									*
Part No	:	PAR #:	Fault Categ	ory:	NCR: Yes	No DQ	\:	Date: _	
	R	esolution:	Disposition	:	QA: N/C Cl	osed:		Date: _	
NCR:			WORK ORDE	R NON-CONFORMA	NCE (NCR)			
DATE	STEP	Description of NC		Corrective Action Section		Verific		Approval	Approval
DAIL	SILI	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section	on C 	Chief Eng	QC Inspector
							4.		
		~							
		1							
		· · · · · · · · · · · · · · · · · · ·							

. 45%

Work Order ID 66950

Thursday, March 03, 2011 8:47:22 AM



Page 3

Item ID:

D3414-041

Accept



Setup Start

Stop



Revision ID:

Item Name:

Lug Assembly

Start Date:

Required Date: 3/11/2011

3/3/2011

Start Oty: 12.00

Reg'd Otv: 12.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/

Work Center ID

150

Quality Control

Operation Description

OC9- Inspect visual per OSI004- Fusion Welds

Memo

Memo

Set Up/ **Run Hours**

0.00 4

0.00

Tool ID

Tool # Plan

Code

Accept Otv

Reject Qty

Reject Number Stamp

Insp.

160



Quality Control

QC5- Inspect part completeness to step on W/O

0.00



170

Powdercoat

Powder Coating

White Gloss(Ref:4,3.5.1) per OSI005 4.3-Alum

Memo

START TIME: OVEN TEMPERATURI

FINISH TIME:

0.00

0.00

20 Bl 11-3-28.

Dart A	erospace	Ltd
--------	----------	-----

									•
W/O:			WC	ORK ORDER CHANG	GES				
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cate	gory:	NCR: Ye	s No DQ	A:	Date: _	1
	R	esolution:	Disposition	n:	QA: N/C	Closed:		Date: _	
NCR:			WORK ORD	ER NON-CONFORM	IANCE (NO	R)			
DATE	STEP	Description of NC			ction B		cation	Approval	Approval
	JILI	Section A	Initial Chief Eng	Action Description Chief Eng	Sigr Da		tion C	Chief Eng	QC Inspector
						.			
						1			

Work Order ID 66950

Thursday, March 03, 2011 8:47:22 AM



Page 4

Item ID:

D3414-041

Accept

Setup Start

Stop



Revision ID:

Item Name:

Lug Assembly

Start Date:

Required Date: 3/11/2011

3/3/2011

Start Qty: 12.00 Req'd Qty: 12.00

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run

Start

Stop



Sequence ID/

Work Center ID

180

Quality Control

Operation Description

QC3- Inspect Part Finish

Memo

Set Up/ **Run Hours**

Tool ID

Tool # Plan Code

Accept

Reject Qty

Reject Insp. Number

Stamp

190

Packaging

Packaging

200

Quality Control

Identify as per dwg & Stock Location: \(\frac{1}{2} \)

0.00

Memo

0.00

QC21- Final Inspection - Work Order Release

Memo

0.00

0.00

Dart Ac	erospace	Ltd
---------	----------	-----

	Johann								-
W/O:			W	ORK ORDER CHANG	ES				
DATE	STEP	PRO	CEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No	:	PAR #:	Fault Cate	gory:	_ NCR: Yes	No DQ	A:	_ Date: _	
	R	esolution:	Dispositio	n:	_ QA: N/C CI	osed:		Date:	
NCR:		1	WORK ORD	ER NON-CONFORM	ANCE (NCF	?)			
		Description of NC			ion B	Verifi	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	k Sect	ion C	Chief Eng	QC Inspector
					,				
						: :			
							-		
,									

Picklist Print

Thursday, March 03, 2011 8:47:29 AM

Work Order ID: 66950

Parent Item:

D3414-041

Parent Item Name: Lug Assembly



Start Date: 3/3/2011

Required Date: 3/11/2011

Page 1

Start Qty: 12.00

Required Qty: 12.00

Comments:

IPP A□05.09.13□New issue□KJ/JLM□

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304S12GA		Purchased	No			100	sf	190.5000	0.155		3.(11-3-7		
				Location		Loc	<u>Oty</u>	Loc Code					
D3414-3 Lug		Manufactured	No		112290 112611 113062 113077	140	190.5 2.5 29 127 32 Each	5.0000		1306) 12	(1-3-	21	
				<u>Location</u>		Loc		Loc Code					
				WA	66045		5 5		_		_		
					66944		7 2		_	20	•	-	

Dart A	erospace	Ltd
--------	----------	-----

	•								
W/O:			WC	RK ORDER CHANG	SES				
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cate	gory:	NCR : Ye	s No D	QA:	Date: _	
·	Re	esolution:						Date: _	
NCR:		•	WORK ORDI	ER NON-CONFORM	ANCE (NO	R)			
DATE	STEP	Description of NC		Corrective Action Section B			fication	Approval	Approval
	SILI	Section A	Initial Chief Eng	Action Description Chief Eng	Sigr Da		ction C	Chief Eng	QC Inspector
					;				
						*			

DART AEROSPACE LTD	Work Order:	44950
Description: Lug Bracket	Part Number:	D3414-1
Inspection Dwg: D3414 Rev: C		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X First Article X Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø0.313	+0.006/-0.001	,313	×		V 1802	
1.19	+/-0.030	1.184	>		V	
1.00	+/-0.030	1.013	7		V	
3.38	+/-0.030	3317	7		V	
5.350	+/-0.010	5,350	7		V	
6.23	+/-0.030	6.775	×		V	
2.500	+/-0.010	2,495	8		V	
0.37	+/-0.030	ملان	ب		V	
0.100	+/-0.010	104	٧		<i>y</i>	

Measured by:	B	Audited by:	Prototype Approval:	N/A
Date:	11-3-7	Date: 11/03/07	Date:	N/A

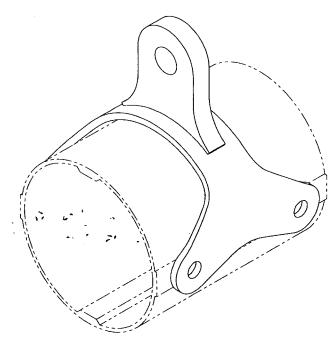
Rev	Date	Change	Revised by	Approved
Α	08.02.28	New Issue P/O D3414-041	KJ/DD	
В	09.05.27	Dimensions updated per Dwg Rev B	KJ 10	
С	09.10.16	Dwg Rev updated to Rev C	KJ X	M

Dart Aerospace Ltd

										
W/O:			WORK ORDER CHANGES							
DATE	STEP	PRO	PROCEDURE CHANGE					Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
					i					
						}				
Part No:PAR		PAR #:	Fault Category: N			Yes N	o DQ	A :	J	
Resolution:			Disposition:			_ QA: N/C Closed: Date:				
NCR:			WORK ORD	ER NON-CONFORMA	ANCE (I	VCR)				
DATE	STED	Description of NC Section A		Corrective Action Section		: Q	Verification			Approval
DAIL	JILI		Initial Chief Eng	Action Description Chief Eng		ign & Date	Secti	on C	Chief Eng	QC Inspector
					:					
1	1		1		1		1		1	1

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

ITEM No.	QTY. -041	PART NUMBER	DESCRIPTION
1	х	D3414-041	LUG ASSEMBLY
2	1	D3414-1	LUG BRACKET
3	1	D3414-3	LUG



D3414-041 LUG ASSEMBLY

D

NOTES:
1) MATERIAL: N/A
2) FINISH: POWDER COAT WHITE (4.3.5.2) PER DART QSI 005 4.3
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3414-041" USING FINE POINT PERMANENT INK MARKER
7) WEIGHT: 0.52 lbs

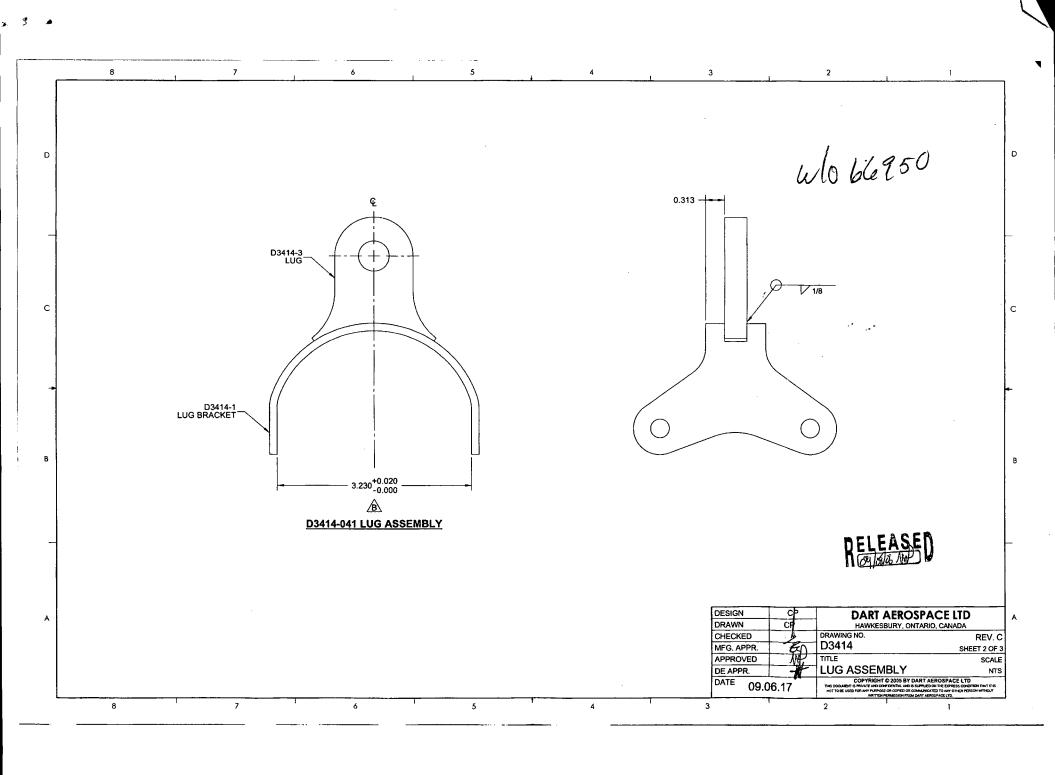
SHOP CHAY RETURNITO ENGINEERING UNCONTROLL RD CC 12 SUBJECT TO AMENDMENT WITHOUT NOTICE

С		SHARP EDGES 030 (ZN A7-3)	CP	09.06.17		
В	STANDA FLAT PA PREVEI REMOV OF MAN	NG REDRAWN I ARDS AND TRA ATTERN FOR -1 NT FOULING AT ED FROM -1 (P IUFACTURE, B -3 1.12 DIM WA	AJS	08.09.23		
Α	NEW IS	SUE	CP	05.03.16		
REV.			BY	DATE		
DESIGN OP DART AER				ACE L	TD	
DRAW	ν	OP	HAWKESBURY, ONTARI	O, CANA	DA	
CHECK	ED		DRAWING NO.	REV. C		
MFG. A	PPR.	E	D3414	SHEET 1 O		
APPRO	VED	W	TITLE		SCALE	
DE APP	DE APPR.		ไLUG ASSEMBLY ท			
DATE 09.06.17			COPYRIGHT © 2005 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EDIFFESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE ON COMPLIED ON COMMANDATE TO THAT HOT ONE PERSON WITHOUT WINTON PERSONS ON PROMINENT AEROCIPACE, LTD.			

3

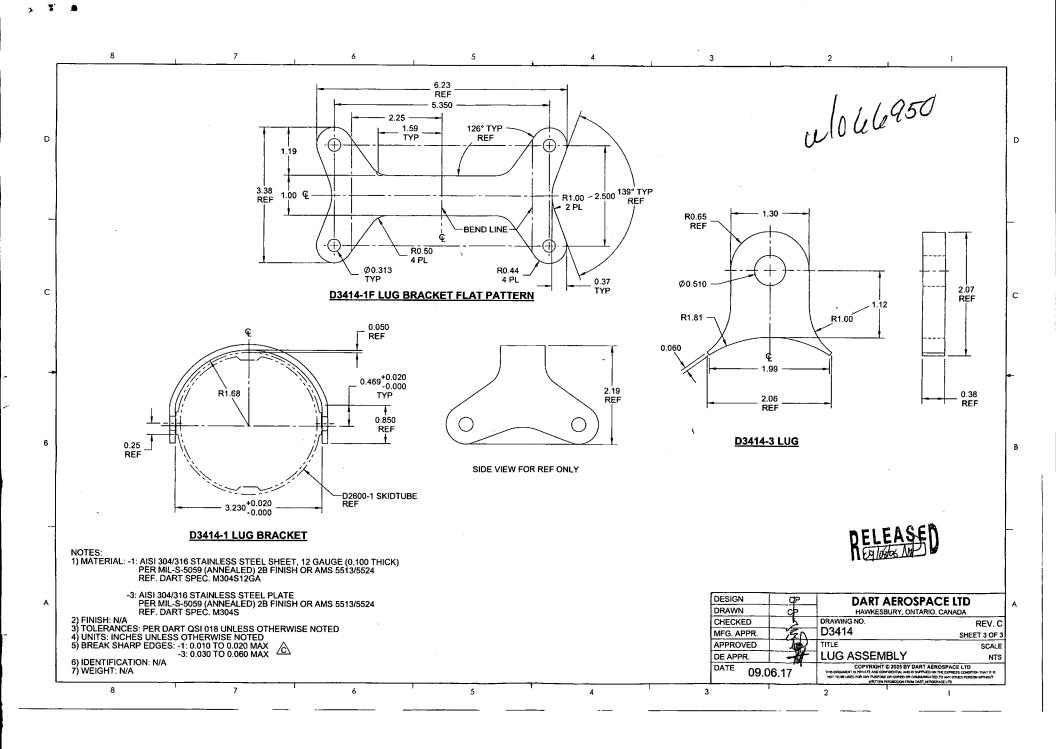
8

Duit Mo	oopaoc	Liu									
W/O:			WC	ORK ORDER CHANGES	3						
DATE	STEP	PRO	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
								·			
Part No:		PAR #:	Fault Cate	gory:	NCR: Yes No DQA: Date:						
	R	esolution:	Dispositio	_ QA: N/C Closed: Date:							
NCR:			WORK ORD	ER NON-CONFORMAN	ICE (NCR	3)					
DATE	STEP	Description of NC	Corrective Action Section				cation	Approval	Approval		
DAIL	SILF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Sect	ion C	Chief Eng	QC Inspector		
								!			
								1			



Dart	Aerospace	Ltd
W//0		

	-							
W/O:			WC	ES			į	
DATE	STEP	PRO	CEDURE CHA	NGE	Ву	Date Qt	Approval Chief Eng / Prod Mgr	Approval QC Inspector
						1		
Dort No.		PAR #:	Foult Coto	70FW	NCP: Yes	No DOA:	Date	<u>.l</u>
Part NO		esolution:						
	יח			ER NON-CONFORMA			Date	
NCR:	1					·/		- _T
DATE	STEP	Description of NC Section A	Initial	Corrective Action Section Action Description	on B Sign 8	Verification Section C		Approval QC Inspector
		Section A	Chief Eng	Chief Eng	Date		Office Eng	QO mapeetor
		• ,						
					Ī			



D uit 710	Paoo								E •		
W/O:			WORK ORDER CHANGES								
DATE STEP		PRO	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
Part No:		PAR #:	Fault Categ	jory:	NCR: Yes	No DQ	A:	Date:			
				QA: N/C Closed: Date:							
NCR:		,	WORK ORDE	ER NON-CONFORMA	NCE (NCF	R)					
		STEP Description of NC Section A	Corrective Action		on B	Verific	cation	Approval	Approval		
DATE	STEP		Initial Chief Eng	Action Description Chief Eng	Sign 8 Date	k Sect	ion C	Chief Eng	QC Inspector		
1	1				ı	I		1	1		